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JC640 U.S. PTO
05/26/00

NEW, CONTINUATION, DIVISIONAL OR
CONTINUATION-IN-PART APPLICATION
UNDER 37 C.F.R. §1.53(b)

Attorney Docket No. 9660000001

Express Mail Label No. EL 581 390 948 US

Date 5/26/00

JC780 U.S. PTO
09/579393
05/26/00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Hon. Commissioner of Patents and Trademarks
Washington, D. C. 20231

Sir:

Transmitted herewith for filing under 37 C.F.R §1.53(b) is a patent application for DISTRIBUTED
CONTROL FOR A CONTINUOUS PLAY BACKGROUND MEDIA SYSTEM

Identified by: ☐ First named inventor _____
or ☒ Attorney Docket No. (see above)

1. Type of Application

☒ This application is a new (non-continuing) application.

☐ This application is a ☐ continuation / ☐ divisional / ☐ continuation-in-part of prior application
No. _____. Amend the specification by inserting before the first line the sentence:

--This is a [continuation/division/continuation-in-part] of United States patent
application No. _____, filed _____--

☐ The entire disclosure of the prior application, from which a copy of the oath or declaration
is supplied, is considered part of the disclosure of the accompanying application and is
hereby incorporated by reference therein.

If for some reason applicant has not requested a sufficient extension of time in the parent
application, and/or has not paid a sufficient fee for any necessary response in the parent
application and/or for the extension of time necessary to prevent the abandonment of the parent
application prior to the filing of this application, please consider this as a Request for an Extension
for the required time period and/or authorization to charge our Deposit Account No. 08-0750 for
any fee that may be due. THIS FORM IS BEING FILED IN TRIPLICATE: one copy for this
application; one copy for use in connection with the Deposit Account (if applicable); and one copy
for the above-mentioned parent application (if any extension of time is necessary).

2. Contents of Application

- a. Specification of 37 pages;
 - ☐ A microfiche computer program (Appendix);
 - ☐ A nucleotide and/or amino acid sequence submission;

☐ Because the enclosed application is in a non-English language, a verified English
translation ☐ is enclosed ☐ will be filed.

☐ Cancel original claims _____ of the prior application before calculating the filing fee. (At
least one original independent claim must be retained for filing date purposes.)

- b. ☒ Drawings on 19 sheets;

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- c. ☒ A signed Oath/Declaration ☐ is enclosed / ☒ will be filed in accordance with 37 C.F.R. §1.53(f).

The enclosed Oath/Declaration is ☐ newly executed / ☐ a copy from a prior application under 37 C.F.R. §1.63(d) / ☐ accompanied by a statement requesting the deletion of person(s) not inventors in the continuing application.

d. **Fees**

FILING FEE	Number		Number		Basic Fee	
CALCULATION	Filed		Extra		Rate	\$690.00
Total Claims	46	- 20 =	26	×	\$18.00 =	468.00
Independent Claims	2	- 3 =	0	×	\$78.00 =	
Multiple Dependent Claim(s) Used					\$260.00 =	
FILING FEE - NON-SMALL ENTITY						
FILING FEE - SMALL ENTITY: Reduction by 1/2						
<input type="checkbox"/> Verified Statement under 37 C.F.R. §1.27 is enclosed.						
<input type="checkbox"/> Verified Statement filed in prior application.						
Assignment Recordal Fee (\$40.00)						
37 C.F.R. §1.17(k) Fee (non-English application)						
TOTAL						\$1,158.00

- ☐ A check is enclosed to cover the calculated fees. The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment, to Deposit Account No. 08-0750. A duplicate copy of this document is enclosed.
- ☒ The calculated fees will be paid within the time allotted for completion of the filing requirements.
- ☐ The calculated fees are to be charged to Deposit Account No. 08-0750. The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment, to said Deposit Account. A duplicate copy of this document is enclosed.

3. **Priority Information**

- ☐ **Foreign Priority:** Priority based on _____ Application No. _____, filed _____, is claimed.
- ☐ A copy of the above referenced priority document ☐ is enclosed / ☐ will be filed in due course, pursuant to 35 U.S.C. §119(a)-(d).
- ☐ **Provisional Application Priority:** Priority based on United States Provisional Application No. _____, filed _____, is claimed under 35 U.S.C. §119(e).

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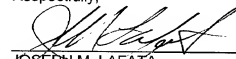
4. **Other Submissions**

- ☐ A Preliminary Amendment is enclosed.
- ☐ An Information Disclosure Statement, _____ sheets of PTO Form 1449, and _____ patent(s)/publications/documents are enclosed.
- ☐ A power of attorney
- ☐ is submitted ☐ with the new Oath/Declaration.
- ☐ is of record in the prior application and ☐ is in the original papers / ☐ a copy is enclosed.
- ☐ An Assignment of the invention
- ☐ is enclosed with a cover sheet pursuant to 37 C.F.R. §§3.11, 3.28 and 3.31.
- ☐ is of record in a prior application. The assignment is to _____, and is recorded at Reel _____, Frame(s) _____.
- ☐ An Establishment of Assignee's Right To Prosecute Application Under 37 C.F.R. §3.73(b), and Power Of Attorney is enclosed.
- ☒ An Express Mailing Certificate is enclosed.
- ☒ Other: return postcard

Attention is directed to the fact that the correspondence address for this application is:

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Respectfully,


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May 26, 2000

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Washington, D.C. 20231

Sir:

EXPRESS MAILING CERTIFICATE

Applicant: Thomas M. Krikorian et al.
Serial No. (if any):
For: DISTRIBUTED CONTROL FOR A CONTINUOUS PLAY
BACKGROUND MEDIA SYSTEM
Docket: 9660-000001
Attorney: Joseph M. Lafata

"Express Mail" Mailing Label NumberEL 581 390 948 US

Date of Deposit5/26/00

I hereby certify and verify that the accompanying Transmittal (in triplicate), Thirty-Seven (37) page Patent Application, nineteen (19) sheets of drawings including Figures 1-21; return postcard and this Express Mailing Certificate are being deposited with the United States Postal Service "Express Mail Post Office To Addressee" service under 37 C.F.R. 1.10 on the date indicated above and are addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.



Signature of Person Mailing Document(s)

**DISTRIBUTED CONTROL FOR A
CONTINUOUS PLAY BACKGROUND MEDIA SYSTEM**

FIELD OF THE INVENTION

The present invention relates generally to background media systems. More particularly, the present invention relates to a background media system for generating a continuous play program for one or more playback control devices.

BACKGROUND OF THE INVENTION

Background media systems are generally used by commercial enterprises to create an environment that enhances a customer's experience while in a facility run by the commercial enterprise. For example, the owner of a diner with a 1960's theme typically decorates the diner with memorabilia from the 1960s and plays music, announcements and/or video that reflects that era. In contrast, the owner of an upscale clothing store in New York would choose a different décor and would play a more contemporary mix of music and video. As different commercial enterprises attempt to differentiate themselves in the marketplace, demand increases for customization of media such as background audio, announcements, and video that are presented to customers within the premises.

Franchise owners spend a lot of time and money generating good will in their business names through advertising, quality control, and efforts to present a consistent and positive experience for customers who visit their locations. Franchise owners typically create strict rules relating to the appearance of the franchise facility.

Franchise owners may also wish to strictly control the music, video and announcements that play within their franchise facilities.

Most conventional background media systems typically include only background music. In some systems, music formats are sent to the users on a regular basis in the form of tapes, compact discs (CDs) or digital video discs (DVDs). The music formats are played on proprietary systems that may include devices for storing the music formats for future use. Other systems transmit background music via a satellite broadcast or a frequency modulated (FM) sub-carrier frequency to specially-designed receiving equipment that is located in the enterprise's facility. While providing a relatively inexpensive way to receive the background music, these background media systems are generally limited in that the commercial enterprise cannot tailor the formats beyond those provided by the background media system vendor. If custom music formats or playlists can be obtained, they generally cost too much for small or medium sized commercial enterprises. While satellite systems offer different audio formats on different channels, the number of available channels is limited. As customers request more highly customized audio and video environments for their facilities, the demand for additional channels will exceed the available bandwidth. Generally these systems also require that the video, announcements and other media be handled with separate systems.

The conventional background media systems also have a disadvantage in that when specialized announcements are mixed into the background music and video, the background music and video is abruptly interrupted for the announcements.

SUMMARY OF THE INVENTION

The above and other objects are provided by a continuous play broadcast system that includes a distributed communications system and a playback control device that is connected to the distributed communications system. The playback control device includes one or more output devices, memory that stores digital media files and a continuous play program, and a controller that outputs the digital media files to the output device according to the continuous play program. The media files include at least one of audio files, video files and announcement files. A computer is connected to the distributed communications system. A web server is connected to the distributed communications system and to a master library of the digital media files. The computer accesses the web server via the distributed communications system to alter the continuous play program for the playback control device.

According to other features of the invention, the computer includes a browser module for accessing the web server and the web server transmits executable files to the computer for creating the continuous play program. The executable files are at least one of Active-X[®] components, Java Applets[®] and Java Script[®].

According to still other features of the invention, the executable files allow the computer to select and arrange custom playlists by selecting a plurality of the digital media files from the master library and by allowing at least one of sequencing the digital media files and randomly playing the digital media files. The executable files also allow the computer to select a plurality of predetermined collections of the digital media files, to allocate percentages to the plurality of predetermined collections and to create a composite collection that randomly selects the digital media files from the

collections based on the allocated percentages. The executable files also allow the computer to select at least one of the digital media files within the predetermined collections and to increase or decrease the likelihood that the at least one of the digital media files is played in the composite collection. The executable files also allow the computer to select at least one of the digital media files within the predetermined collections and to prevent the at least one of the digital media files from playing in the composite collection. The executable files also allow the computer to select at least one of the digital media files within the predetermined collections and to prevent the at least one of the digital media files from playing during preselected times in the composite collection.

In yet other features of the invention, the executable files allow the computer to assign the predetermined collections to a time-based schedule that forms part of the continuous play program. The executable files also allow the computer to assign the composite collection to the time-based schedule.

Still other objects, features and advantages will be readily apparent.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a functional block diagram of a continuous play background media system according to the invention;

FIG. 2 is a functional block diagram of a computer from FIG. 1;

FIG. 3 is a functional block diagram of a playback control device of FIG. 1;

FIG. 4 is a functional block diagram of a web server of FIG. 1;

FIG. 5 illustrates a browser and a log-on interface for the continuous play background media system;

FIG. 6 illustrates a location interface for the continuous play background media system;

5 FIG. 7 illustrates an environment interface for the continuous play background media system;

FIG. 8 illustrates a schedule interface for the continuous play background media system;

10 FIG. 9 illustrates a collections interface for the continuous play background media system;

FIG. 10 illustrates a date selection interface for the continuous play background media system;

FIG. 11 illustrates a day selection interface for the continuous play background media system;

15 FIG. 12 illustrates a time selection interface for the continuous play background media system;

FIG. 13 illustrates a create collections interface for the continuous play background media system;

20 FIG. 14 illustrates an individual selections interface for the continuous play background media system;

FIG. 15 illustrates a restrictions interface for the continuous play background media system;

FIG. 16 illustrates a volume interface for the continuous play background media system;

FIG. 17 illustrates an audition interface for the continuous play background media system;

5 FIG. 18 illustrates an hours setup interface for the continuous play background media system;

FIG. 19 illustrates a security setup interface for the continuous play background media system;

10 FIG. 20 illustrates a miscellaneous setup interface for the continuous play background media system; and

FIG. 21 illustrates a log interface for the continuous play background media system.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

15 Referring now to FIG. 1, a control system for a continuous play background media system is illustrated and is generally designated 10. Web servers 14-1, 14-2, ..., and 14-x are connected to a distributed communications system 18 such as the internet. Computers 26-1, 26-2, ..., and 26-y are connected to the distributed communications system 18. Playback control devices 30-1, 30-2, ... , and 30-z are connected to the distributed communications system 18.

In use, the playback control devices 30 are located in various commercial environments. For example, the computer 26-1 accesses the web server 14-2 to create continuous play programs which are downloaded to the playback control devices 30-1,

30-2, 30-3, and 30-4. The playback control devices 30 execute the continuous play program to provide background music, announcements, and/or video in a commercial facility. As used herein, selections and media refer to audio, music, music with video, video, still images, and/or announcements. The audio can be music, sound effects or other recorded sounds. The video can be moving or still images. When changes to the continuous play programs are required, the computer 26-1 accesses the web server 14-2 to alter the continuous play program. The continuous play program allows a user to arrange selections such as video, audio, and announcements into one or more collections. The collections are assigned to time blocks during the day. Once the continuous play program is setup, the selections are played in a continuous manner without the need for user control.

Referring now to FIG. 2, a block diagram illustrating the computer 26 is shown. The computer 26 includes an input/output (I/O) interface 40, a processor 44, and memory 48. The memory 48 can include read-only memory (ROM), random access memory (RAM), and/or external memory storage such as a hard drive, a floppy drive, an optical drive, or other suitable external memory storage. The memory 48 contains an operating system (OS) module 52 and a browser 56. In a preferred embodiment, the browser 56 is capable of receiving executable files via web servers 14. Suitable browsers 56 include, but are not limited to, Internet Explorer and Netscape. The executable files that work with the browsers include but are not limited to ActiveX[®] components, Java Applets[®] or JavaScript[®]. Skilled artisans can appreciate that the continuous play programs can also be adapted for use in distributed systems that do not employ executable files.

customers within the enterprise facility. If a television display or peripheral is employed, the playback control device 30 preferably includes a standard video output connection. Alternately, the display 80 can be a computer display. The display 80, the keyboard, and the mouse are not required to operate the playback control device.

5 The playback control device 30 is intended to be a stand-alone device that needs to be turned on. Thereafter, the continuous play program operates the playback control device 30. The playback control device 30 is connected to the distributed communications system 18 in any of the ways described above with respect to the computer 26.

10 Speakers 88 are connected to the I/O interface 70. The speakers 88 are preferably positioned in various locations throughout the commercial enterprise. One or more databases 92 include a song library 96 which contains a plurality of digital audio files containing audio such as music, an announcement library 100 that contains digital announcement files, a video library 104 that contains video or still picture files, and/or a text/graphics library 108. The text/graphic library 108 contains media that
15 can be included in advertisements for printed publications, displayed using peripherals, computer displays, or televisions and/or used in any other manner.

In use, the playback control device 30 executes the continuous play program that automatically plays selections stored in the databases 92. Periodically, the
20 computer 26 alters the continuous play program via the web server 14. The web server 14 provides new selections and a continuous play program to update the playback control device 30 via the distributed communications system 18.

Referring now to FIG. 4, the web server 14 is illustrated in further detail. The web server 14 includes an I/O interface 150 that is connected to a processor 152 and memory 154. The memory 154 preferably includes RAM, ROM, and external memory storage such as hard drives, floppy drives, optical storage, and other suitable memory storage devices. The memory 154 includes an OS module 156 and a server module 158 that perform server functions in a conventional manner. A single module can execute the OS module 156 and the server module 158.

In general, the web server 14 interfaces with the user of the computer 26 using hypertext markup language (HTML). The user selects a uniform resource locator (URL) for the web server 14. The computer 26 sends the URL request to the web server 14 using hypertext transfer protocol (HTTP). The web server 14 finds a requested home page, document, or object (such as an executable file) and sends it to the computer 26. When the request is complete, the HTTP connection is closed and can be reopened later if needed. Web pages and executable files 162 are transmitted to the computer 26 in response to the requests.

One or more I/O devices 166 such as a keyboard, a mouse, a printer, a scanner, etc. are connected to the I/O interface 150. A display 170 is connected to the I/O interface 150. The web server 14 is connected to the distributed communications system 18 using a phone-based or cable-based modem 174, a LAN 176, a WAN 178, or other suitable connections. Radio frequency and/or satellite-based connections are also contemplated. One or more databases 182 contain a master title library that includes digital audio files for each song that is to be delivered in the continuous play background media system 10. The databases 182 further include custom and generic

announcement files, video files and text/graphics files that are likewise to be distributed in the continuous play background media system 10. The databases 182 also contain user profiles that are associated with one or more users and one or more playback control devices 30. The databases 182 store logs containing a list of music, announcements, video and text/graphics that have been used by the playback control devices 30 for customer billing and royalty payment purposes. As can be appreciated, the databases 182 can be separated into multiple databases on one or more computers as is dictated by database size, access speed, security and other factors.

In use, the computer 26 uses the browser 56 to connect to the web server 14 via the Internet 18. The web server 14 transmits a web page containing a user name and password interface. Alternately, an executable file can perform the user name and password log-on process. Using the computer 26, the user designs a continuous play program for one or more playback control devices 30. Upon completing the continuous play program, the web server 14 begins a process of updating the playback control devices 30 using one or more connection sessions.

As can be appreciated, the computer 26 can be located remotely from the playback control devices 30 and can program multiple playback control devices 30 at once. Alternately, the computer 26 and the playback control device 30 can be integrated into a signal device. In other words, the computer 26 can be used as described above. When not used to create or modify continuous play programs, the computer 26 can be used as a playback device. By providing a distributed control system for continuous play background media systems 10, franchise owners can create a more uniform experience for their commercial environments. In addition, local

management does not need to be involved with the creation or modification of the continuous play programs. Nonetheless, the continuous play programs according to the invention are almost infinitely variable unlike conventional systems.

Referring now to FIG. 5, the computer 26 includes the internet browser 56 that
5 includes a control screen 200. The Internet browser control screen 200 includes a menu bar 204 with one or more drop-down menus that are operated in a conventional point-and-click manner. A toolbar 208 contains a plurality of command buttons 210 which provide browsing functions such as back, forward, stop, refresh, print, home, search, favorites, and other suitable browser functions. An address text box 212
10 allows a user to input a URL or domain name address for connecting the computer 26 to a web page provided by the web server 14.

A log-on interface 216 requires the user to input a user name in a text box 222 and a password in a text box 224. When complete, the user clicks on a command button 226 to attempt to log on. The web server 14 compares the user name and
15 password to a database. If a match is found, the user is granted access. After a user is logged on, the command button 216 may also be used to log-off the user. The text of the command button 26 is changed to "log off." The user name and password provide the user access to modify or create continuous play programs. Access levels vary depending upon the password clearance of the user.

20 After logging on, the web server transmits a location interface 234 (FIG. 6) that is provided by one or more location-related executable files. The location interface 234 allows a user to classify locations into groups and subgroups so that a continuous play program can be created for a location, a subgroup of locations, or a

group of subgroups. Additional grouping levels can be added if needed. The location interface 234 includes an interactive box 236 that contains groups, subgroups and locations that can be accessed by the user. The interactive box 236 provides the user with a list of locations, groups and subgroups and other related data fields from the database 182. The groups, subgroups, locations, addresses, and other data fields are stored in one or more relational tables in the database 182. As used herein, the term “interactive box” refers to display boxes that contain automatic links for the databases 182, dynamic displays such as trees, or lists that can be sorted by clicking on field names, by using check boxes, or by moving scroll bars.

The interactive box 236 is manipulated using a scroll bar 240 in a conventional manner. By clicking on one of the column headers 244-1, 244-2, 244-3, the location interface 234 sorts the data by the selected header. For example, if the subgroup field name 244-2 is selected, the group, subgroup and location information is arranged alphabetically by subgroup initially from A to Z. Selecting the subgroup field name again sorts from Z to A.

An interactive text box 250 includes a tree structure 254 that can be expanded and collapsed to show a location hierarchy that is defined by the user. Additional command buttons generally identified at 258 and a check box at 262 allow a user to organize locations into groups and subgroups by showing, hiding, selecting and/or clearing. Command button 264 triggers a dialog box (not shown) which allows a new location to be added. An “edit location” command button 266 triggers a dialog box (not shown) that allows a location to be edited.

The group or subgroup of a location can be changed by highlighting a location in the interactive box 236 and a group or subgroup in the interactive box 250. By clicking on a command button 268, the selected group or subgroup is updated for the selected location. To modify a group, the user selects a group, subgroup or location by highlighting the group, subgroup or location. The user clicks on a command button 264. The command button 264 selects the highlighted group, subgroup or location and returns the user to the log-on interface 216. From there, the user can make modifications to the selected group, subgroup or location using the links. In an alternative configuration, a system administrator may arrange predetermined groups for selection by the users, limiting the user's ability to define groups. Such modification may be selected from a menu of options such as links 228 shown in FIG 5. The user can click on various different links 228 that allow the user to change various aspects of continuous play programs associated with the user.

Referring now to FIG. 7, when the user clicks on an environment link 270 in FIG. 5, one or more environment-related executable files are transmitted by the web server 14 to the computer 26. An environment interface 274 displays a current playlist that may include one or more collections for a selected group. For example, the Eastern group is selected in FIG. 7. The user previously selected the Eastern group using the location interface 234. The environment interface 274 shows the playlist that contains selections that are currently playing or in a cue to be played at the Eastern group. A "live" connection between at least one of the play back control devices in the Eastern group is required. If a "live" link is not available, the environment interface would be limited to showing the collection currently being played.

An interactive box 278 includes a scroll bar 280 for scrolling through individual selections. The information displayed on the interactive box 278 is automatically accessed from the database 182 and includes title, artist, time, length, and a category. Highlighting is employed to identify a currently playing selection. A text box 284 includes information concerning a collection that is currently playing at the Eastern group locations. The collection includes a plurality of collection components each of that is allocated a percentage of a collection. For example, the Mainstream Adult Collection Component is 30% of the collection. Selections from each of the collection components are preferably played at random (unless modified) in proportion to the allocated percentage or restricted by date or time. To return to the log-on interface 216, the back tool button 210 can be used. Alternately, a command button can be provided to return the user to the log-on interface. A details command button 286 provides details concerning the collection, the selection currently playing, the locations within the selected group, and other pertinent information. A pause play button 287 pauses play at the selected locations. A command button 288 locates a currently playing selection. A reduce playlist button 290 launches a dialog box (not shown) that reduces the length of the playlist for the collection.

Referring now to FIG. 8, a schedule link 300 in FIG. 5 causes the web server 14 to transmit one or more schedule-related executable files. A schedule interface 302 allows a user to assign collections that are predefined by the operator of the continuous play background media system 10 operator such as 60-70's Solid Gold, Core Country, Adult Contemporary, etc. to a time-based schedule for the selected groups, subgroups or locations. The schedule interface 302 also allows the user to assign user-defined

collections to the time-based schedule for the selected groups, subgroups or locations.

A frame 304 allows a user to select either active or active and inactive collections using check boxes 306 and 307. By excluding inactive collections, seasonal collections

such as Christmas collections can be omitted to provide a cleaner display. A second

5 group of check boxes 308 and 310 are located in a frame 312 and allow a user to select

collections with an "OK" status or an "ALL" status. The "OK" status designates that all components of the collection are loaded on the system. The database names of all

available selections are always available. The selections such as audio, video, or announcement files may not be loaded on the playback control devices. The "ALL"

10 status designates that some of the components may be missing from the system.

To assign collections to the time-based schedule, the user selects one or more time slots in an interactive box 314 that includes days of the week and time of day.

The time of day portion is divided into time blocks having a predetermined time increment such as 15, 30, 45, 60, etc. minutes. A scroll bar 316 allows the user to

15 change the time blocks that are displayed. An interactive text box 318 contains

collections that are available to the user along with other related data fields such as a content field 320 and a status field 322. The content field 320 identifies the type of

media that is contained in the collection. A color-coded field 324 is used in the interactive box 314 to graphically represent the collections in the time blocks.

20 In use, the user selects a collection from the interactive box 318. The user

highlights one or more time blocks in the interactive box 314. The user points and clicks on a command button 316. The selected collection is assigned to the selected

time blocks. The time slots that are provided in the text interactive box 314 must be

filled completely to prevent the unintentional absence of selections (such as music, announcements, or video) during business hours. Silence, however, may be intentionally programmed into time blocks. Command buttons, generally identified at 324, allow a user to cancel changes, approve changes, select all boxes, or clear all boxes.

Color-coding or texture-coding may be employed to provide an easy key for a user who is viewing the time blocks. The continuous play program fits selections within a designated time block. A selection from a selected collection that is assigned to a time block may run over an end time for the block if the selection does not happen to end precisely at the end of the time block. Generally a two-minute rule is used. Selections are inserted until one of the selections ends within ± 2 minutes of a time block end period.

Referring now to FIG. 9, when a user actuates a collections link 340, the web server 14 transmits one or more collections-related executable files. A collections interface screen 344 allows a user to modify existing collections or to create a new collection. An interactive box 350 lists predefined and user-defined collections that are available to the user. An interactive box 354 allows a user to modify collection components and to change percentages that are allocated to each collection component within an existing user-defined collection.

In use, the user highlights one of the collections and presses a command button 360 to add the collection component to the collection. The user highlights a collection component and clicks a command box 362 to remove the collection component from the collection. The user enters a desired percentage for each collection component in

the interactive box 354. A frame 364 allows a user to select from existing categories that the user has access to or categories from the master library using check boxes 366 and 370. A drop-down list box 372 allows a user to select from existing collections. A command button 374 allows a new collection name to be added to the drop down list
5 372. Command buttons 376 and 378 allow a user to approve or cancel changes, respectively.

Referring now to FIG. 10, selection link 390 from FIG. 5 triggers the web server 14 to transmit one or more selection-related executable files that include a selection interface 392. The selection interface 392 allows the user to control the
10 frequency of songs within user-defined collections. An interactive box 396 lists songs for a selected user-defined collection and includes a slider bar 397 for navigating selections. An arrow icon 398 identifies a currently selected title. An interactive box 404 contains check boxes, text boxes and a slider bar that allow a user to adjust a relative frequency at which a selection is played in an existing collection that is
15 selected by a drop-down list box 408. A slider control 409 slides between a setting that plays a selection very often relative to other selections in a collection and a setting that never plays a selection. Using check boxes 412 and 414, the selection can be played only during certain months by selecting the month using one or more check boxes 414. Text boxes 416 and 418 can be used for selecting specific date ranges for
20 consecutive months. A frame 420 and check boxes 422, 424 and 426 control which selections are listed in the text box 396. Check box 422 limits selections to a selected collection. Check box 424 limits selections to those that the user has access to. Check box 426 allows all selections to be selected. Command buttons 428 launch dialog

boxes that allow the selections to be searched and filtered in a conventional manner. Field names 429 of the interactive box 396 allow the user to sort by category, title, artist name, or other fields by pointing and clicking on the field names 429. Control buttons 430, 432, and 434 allow a user to control play on a monthly basis (date button 5 430), a daily basis (days button 432) and an hourly basis (time button 434).

Referring now to FIG. 11, particular days for playing a selection also be programmed by selecting the command button 432. One or more selection-related executable files provide an interface screen 450 that contains check boxes 452, 454, and 455 that are used to select songs to be played on certain days of the week. 10 Alternately, drop-down list boxes 456 and 458 allow the selection of consecutive days for playing the song.

Referring to FIG. 12, when the user selects the button 434, an interactive box 470 is provided by one or more selection-related executable files. The interactive box 470 allows the user to play a selection periodically using a drop-down box 472. The 15 interactive box 470 allows the user to play a selection at a particular time using a drop-down box 474. The interactive box 470 allows a user to prevent a selection from playing using a check box 476. First and second drop-down boxes 478 and 480 allow a user to prevent the selection from being played between first and second time periods.

20 Referring now to FIG. 13, a create collections link 484 triggers the web server 14 to transmit one or more create collections-related executable files. A create collections interface 485 includes an interactive box 486 that contains a list of available selections and has functionality similar to the interactive box 396.

An interactive box 487 contains selections chosen from the list in the interactive box 486. The user selects one or more selections in the interactive box 486 and clicks command button 488 to add selections to the new collection. The user selects one or more selections in the interactive box 487 and clicks command button 489 to remove the selections from the collection. A frame 490 contains check boxes 491-1, 491-2 and 491-3 that are used to choose all selections on the system or those currently available to the user. Command buttons 493 assist the user in finding selections within the list provided in the interactive box. Command buttons 494 allow the user to select, clear, select all or clear all. Command buttons 495 allow the changes to be cancelled or approved. Command button 496 allows a new collection to be added to a drop-down list box 497. The drop-down list box 497 allows the user to select other user-defined collections for modifications.

Referring now to FIG. 14, when a user selects an individual selections link 500 in FIG. 5, the web browser 14 transmits one or more executable files to the computer 26. The executable files allow the user to program individual selections such as audio, video, and announcements to play at certain intervals or to not play at all. The individual items are scheduled initially then selections from a selected collection randomly (with or without weightings) fill a playlist. The executable files contain an individual selections interface 502 that includes a drop-down list box 504 which can be used to choose selections from a predefined collection for output to an interactive box 510. Alternately, a frame 512 includes check boxes 514, 516, and 518 that limit the selections provided in a text box window 510. The check boxes 514, 516, and 518 limit selections output to the interactive box 510 to the collection that is selected using

the drop-down list box 514. The check box 518 allows all selections in the master library to be presented. The check box 516 allows only selection in collections that are currently associated with the computer 26 to be output. Command buttons, generally designated 519, launch dialog boxes for sorting and finding selections within the list of
5 selections in interactive box 510. The user selects the selections in the text box 510 using the mouse and/or keyboard. An arrow 520 adds the selection to a list in an interactive box 522 that lists other automatic selections. The user can select the frequency of play using a drop-down list box 524. The user can select play at a specific time using the drop-down list box 526. Drop-down list boxes 528 and 530
10 prevent the selection from playing between two times. A check box 532 prevents a selection from playing.

Referring now to FIG. 15, when a user selects a restrictions link 540 in FIG. 5, a restrictions interface screen 544 is provided by the web server using one or more executable files. An interactive box 548 lists all of the collections currently associated
15 with the computer. A global setting 549 sets a default artist separation between selections and/or file separation between selections. The global settings are used by default unless a specific restriction setting applies. By double clicking on a line, an interactive box 550 is launched which allows a user to define a separation between selections by a particular artist using a drop-down list box 552, or a separation between
20 selections having the same title using a drop-down list box 554.

Referring now to Figure 16, a playback volume link 580 in FIG. 5 triggers the web server to transmit one or more volume-related executable files. A playback volume interface screen 581 includes an interactive box 582 that displays volume levels

as a function of day and time. A slider bar 584 allows navigation of time. Time blocks are defined based upon default settings. An area selection box 586 allows the selection of one of a plurality of areas within the commercial facility using the mouse an arrow 590. For example in FIG. 15, a bar area is selected. The volume levels for the bar area are displayed in the interactive box 582. In a similar manner, lights and heating, ventilation and air conditioning (HVAC) can be controlled. Command buttons 592 allow selection, clearing, approval and cancellation of changes. The volume levels are set either as a percentage of full volume or as a relative level above ambient noise. In such a case, I/O device 94 of the playback device 30 is an ambient noise sensor.

Referring now to FIG. 17, an audition link 600 in FIG. 5 triggers the web server 14 to download one or more audition-related executable files. An audition interface 610 includes an interactive box 612 that includes a list of selections available. A slider bar 614 allows the user to view the list. A drop-down list box 616 allows the selection of predefined or user-defined collections. One or more command buttons 618 allow selections to be found using search and filter functions. An interactive box 620 allows filtering of the list using check boxes 622, 624, and 626. Check box 622 limits selections to those in the collection selected in the list box 616. Check box 624 limits selections to those currently available to the user. Check box 626 provides all available selections.

A user selects a particular selection using the slider bar 614 if needed and clicking on a particular selection. The title of the selection appears in a text box 628. A thumbnail view 630 appears if the selection includes video. Command buttons 624

allow the user to play, stop, repeat and pause a particular selection in a conventional manner. When used, the audition interface 610 does not impact the continuous play program that is operating at the selected locations, subgroup or group. The web server 14 preferably delivers the particular selection to be auditioned using streaming audio, streaming video, or other suitable techniques.

Referring now to FIG. 18, when a user clicks a set-up link 650 in FIG. 5, the web server 14 transmits one or more setup-related executable files. An hours set-up interface screen 654 provides an interactive box 666 which contains a grid defining hours of operation for the selected locations. An interactive box 668 lists available schedules and an active or inactive status. A slider bar 669 allows a user to navigate the list in the interactive box 668. Different days of the week or times of the year have different opening and closing hours. Command buttons 670 allow a user to select and deselect days and times. Command buttons 671 allow a user to make selected times open or closed. Command buttons 672 allow a user to change the status of a selected schedule name from active to inactive. Alternately, the user can double click on a particular day and time to change the day and time from open to closed or from closed to open. Specific dates for a schedule can be set using a command button 673 that launches a dialog box. Command buttons 674, 676 and 678 allow a user to navigate to other set-up screens.

Referring now to FIG. 19, the command button 676 of the set-up interface 654 allows a user to define password levels if the user has a sufficiently high security level. An interactive box 686 displays password levels in a tree structure. If a particular user has a sufficiently high security level, such as level 5, the user can assign access levels

to other users for one or more of the interface screens that are listed in an interactive box 690. Command buttons 694 and 695 allow a user to show or hide passwords in the tree structure. Command buttons 696 and 698 allow a user to be added or removed. A command button 700 allows a password to be changed. A command button 702 allows a one-time password to be selected for a level. A command button 704 allows a user to delete a one-time password for a level. A command button 706 allows a highlighted user or security level in the interactive box 686 to be assigned access to the interface screens that are highlighted in the interactive box 6790.

Referring now to FIG. 20, default set-up settings can be set for the system by selecting the command button 678. A frame 720 contains a drop-down list 724 which allows a time increment for scheduling. Command buttons 726 and 728 allow a user to cancel or approve a change. A frame 730 contains a drop-down list 731 that allows a pause length to be set. Command buttons 732 and 734 allow a user to approve or cancel a change. A frame 740 contains a playlist duration that is used to set the duration to be displayed in the environment interface 274. A drop-down list box 742 allows the selections of the playlist duration. Command buttons 744 and 746 allow a user to approve or cancel the change. A frame 760 allows a user to select the length of time to add to a playlist using a drop-down list box 764 and command buttons 766 and 768.

Referring now to FIG. 21, using a log link 800, a user triggers the web server 14 to download log-related executable file that provides a log interface 804. Control buttons 806, 808, 810, and 812 filter a log list 814 which displays date, description,

schedule time and actual time fields. A scroll bar 816 allows the user to scroll through the log list. Sorting is performed when a field description is selected.

As can be appreciated by the foregoing, the continuous play background media system according to the invention allows continuous play programs to be managed remotely from the playback control devices if desired. The continuous play background media system also allows multiple locations to be controlled using the same continuous play program. Furthermore, the collections of music, announcement and video can be tailored almost infinitely to create any kind of environment desired.

Those skilled in the art can now appreciate from the foregoing description that the broad teachings of the present invention can be implemented in a variety of forms. Therefore, while this invention has been described in connection with particular examples thereof, the true scope of the invention should not be so limited since other modifications will become apparent to the skilled practitioner upon a study of the drawings, specification, and following claims.

CLAIMS

What is Claimed is:

1. A continuous play broadcast system comprising:
 - a distributed communications system;
 - a playback control device that is connected to said distributed communications system and that includes an output device, memory that stores digital media files and a continuous play program, and a controller that outputs said digital media files to said audio output device according to said continuous play program wherein said media files include at least one of audio, video and announcements;
 - a computer that is connected to said distributed communications system;
 - and
 - 10 a web server that is connected to said distributed communications system and to a master library of said digital media files, wherein said computer accesses said web server via said distributed communications system to alter said continuous play program for said playback control device.
2. The continuous play broadcast system of claim 1 wherein said computer includes a browser module for accessing said web server and wherein said web server transmits executable files to said computer for creating said continuous play program.
3. The continuous play broadcast system of claim 2 wherein said executable files are at least one of Active-X[®] components, Java Applets[®] and Java Script[®].

4. The continuous play broadcast system of claim 1 wherein said computer and said playback control device are integrated.

5. The continuous play broadcast system of claim 2 wherein said executable files allow said computer to select and arrange custom playlists by selecting a plurality of said digital media files from said master library and by allowing at least one of sequencing said digital media files and randomly playing said digital media files.

6. The continuous play broadcast system of claim 1 wherein said executable files allow said computer to select a plurality of predetermined collections of said digital media files, to allocate percentages to said plurality of predetermined collections and to create a composite collection that randomly selects said digital media files from said collections based on said allocated percentages.

7. The continuous play broadcast system of claim 6 wherein said executable files allow said computer to select at least one of said digital media files within said predetermined collections and to increase or decrease the likelihood that said at least one of said digital media files is played in said composite collection.

8. The continuous play broadcast system of claim 6 wherein said executable files allow said computer to select at least one of said digital media files within said predetermined collections and to prevent said at least one of said digital media files from playing in said composite collection.

9. The continuous play broadcast system of claim 6 wherein said executable files allow said computer to select at least one of said digital media files within said predetermined collections and to prevent said at least one of said digital media files from playing during preselected times in said composite collection.

10. The continuous play broadcast system of claim 6 wherein said executable files allow said computer to assign said predetermined collections to a time-based schedule that forms part of said continuous play program.

11. The continuous play broadcast system of claim 10 wherein said executable files allow said computer to assign said composite collection to said time-based schedule.

12. The continuous play broadcast system of claim 10 wherein a smallest time unit provided in said time-based schedule can be varied.

13. The continuous play broadcast system of claim 12 wherein said executable files allow said computer to select and arrange custom collections by allowing at least one of selecting a plurality of said digital media files from said master library and by sequencing said digital media files and randomly playing said digital media files.

14. The continuous play broadcast system of claim 2 wherein said executable files allow said computer to access continuous play programs for a plurality of said playback control devices.

15. The continuous play broadcast system of claim 14 wherein said executable files allow said computer to group at least two of said playback control devices and to create a common continuous play program for said at least two of said playback control devices.

16. The continuous play broadcast system of claim 2 wherein said executable files allow said computer to display a digital media file that is currently being played by said playback control device and at least one digital media file that follows said digital media file that is currently being played.

17. The continuous play broadcast system of claim 16 wherein said web server delivers at least one digital media file to said computer as a streaming media file for output to said output device connected to said computer.

18. The continuous play broadcast system of claim 1 wherein said web server stores a profile for said playback control device.

19. The continuous play broadcast system of claim 2 wherein said executable files allow said computer to select business hours to operate said playback control device.

20. The continuous play broadcast system of claim 2 wherein said web server includes a password logon security module for accessing said continuous play programs.

21. The continuous play broadcast system of claim 2 wherein said master library further contains at least one of digital announcement files, video files, and text/graphics files.

22. The continuous play broadcast system of claim 21 wherein said executable files allow said computer to schedule at least one of said digital announcement files in said continuous play broadcast of said playback control device.

24. A method of programming a playback control device in a continuous play broadcast system comprising the steps of:

connecting said playback control device to a distributed communications system;

5 accessing a web site via said distributed communications system using a computer and a web browser; and

accessing and arranging at least one of digital media files and predetermined collections of said digital media files to create a continuous play program for said playback control device, wherein said media files include at least one
10 of audio, video and announcements.

25. The method of claim 24 further comprising the step of:

transmitting executable files from said web server to said computer for creating said continuous play program.

26. The method of claim 24 wherein said executable files are at least one of Active-X® components, Java Applets®, and Java Script®.

27. The method of claim 24 wherein said computer and said playback control device are integrated.

28. The method of claim 24 further comprising the step of:

selecting and arranging custom playlists by selecting a plurality of said digital media files from said master library and by allowing at least one of sequencing said digital media files and randomly playing said digital media files.

29. The method of claim 24 further comprising the steps of:

selecting a plurality of predetermined collections of said digital media files;

allocating percentages to said plurality of predetermined collections;

5 and

creating a composite collection that randomly selects said digital media files from said predetermined collections based on said allocated percentages.

30. The method of claim 29 further comprising the step of:

selecting at least one of said digital media files within said predetermined collections; and

5 increasing or decreasing the likelihood that said at least one of said digital media files is played in said composite collection.

31. The method of claim 29 further comprising the step of:
allow said computer to select at least one of said digital media files
within said predetermined collections; and
preventing said at least one of said digital media files from playing in
5 said composite collection.

32. The method of claim 29 further comprising the step of:
selecting at least one of said digital media files within said
predetermined collections; and
preventing said at least one of said digital media files from playing
5 during preselected times of at least one of a day, a month and a year in said composite
collection.

33. The method of claim 29 further comprising the step of:
assigning said predetermined collections to a time-based schedule that
forms part of said continuous play program.

34. The method of claim 33 further comprising the step of:
assigning said composite collection to said time-based schedule.

35. The method of claim 33 further comprising the step of:
providing a smallest time unit in said time-based schedule;
allowing said smallest time unit to be varied.

36. The method of claim 24 further comprising the step of:
selecting and arranging custom playlists by selecting a plurality of said
digital media files from said master library using said computer and by allowing at
least one of sequencing said digital media files using said computer and randomly
5 playing said digital media files.

37. The method of claim 25 further comprising the step of:
allowing said computer to access continuous play programs for a
plurality of said playback control devices using said executable files.

38. The method of claim 25 further comprising the steps of:
grouping at least two of said playback control devices; and
creating a common continuous play program for said at least two of
said playback control devices.

39. The method of claim 25 further comprising the step of:
displaying a digital audio file that is currently being played by said
playback control device; and
displaying at least one digital audio file that follows said digital media
5 file that is currently being played.

40. The method of claim 24 further comprising the step of:
delivering at least one digital media file to said computer as a streaming media file for output to an output device connected to said computer.

41. The method of claim 24 wherein said web server stores a profile for said playback control device.

42. The method of claim 25 wherein said executable files allow said computer to select business hours to operate said playback control device.

43. The method of claim 24 wherein said web server includes password logon security for accessing said continuous play programs.

44. The method of claim 24 wherein said master library contains at least one of digital announcement files and audio files.

45. The method of claim 25 wherein said executable files allow said computer to schedule at least one of said digital announcement files in said continuous play program of said playback control device.

46. The method of claim 25 wherein said executable files allow said computer to schedule at least one of said digital announcement files in said continuous play broadcast of said playback control device on a recurring basis.

DISTRIBUTED CONTROL FOR A CONTINUOUS PLAY BACKGROUND MEDIA SYSTEM

ABSTRACT OF THE DISCLOSURE

A continuous play broadcast system includes a distributed communications system and a playback control device that is connected to the distributed communications system. The playback control device includes an output device, memory that stores digital media files and a continuous play program, and a controller that outputs the digital media files to the output device according to the continuous play program. The media files include at least one of audio, video and announcements. A computer is connected to the distributed communications system. A web server is connected to the distributed communications system and to a master library of the digital media files. The computer accesses the web server via the distributed communications system to alter the continuous play program for the playback control device. The computer includes a browser module for accessing the web server and the web server transmits executable files to the computer for creating the continuous play program. The executable files are at least one of Active-X[®] components, Java Applets[®] and Java Script[®]. The continuous play broadcast system can also deliver video files and announcement files using the continuous play program. The computer and the playback control device can be integrated.

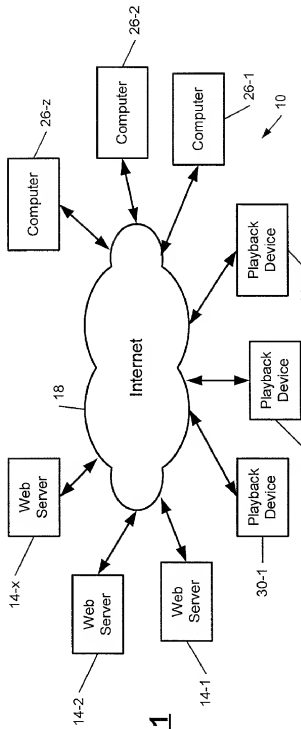


Figure 1

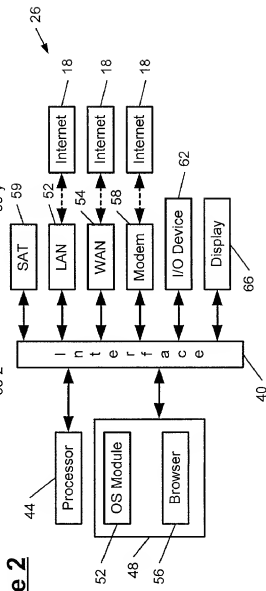


Figure 2

Figure 5

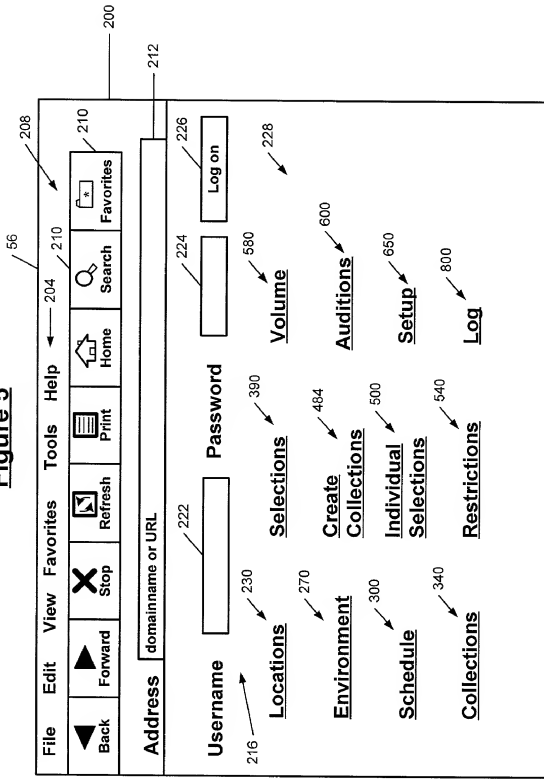


Figure 6

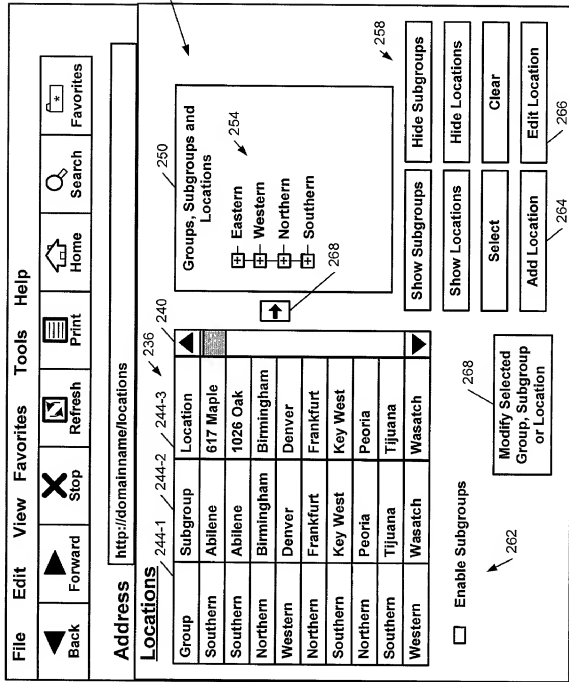


Figure 7

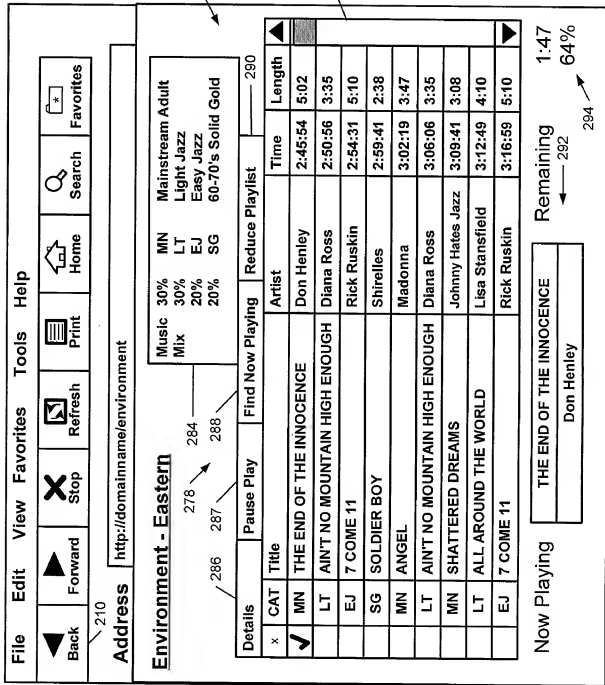


Figure 8

File Edit View Favorites Tools Help

Back Forward Stop Refresh Print Home Search Favorites

Address <http://domainname/schedule>

Schedule - Eastern

324 / 322 / 318 / 320

304

Fall

314 316

Time	S	M	T	W	T	F	S
3:00							
3:15							
3:30							
3:45							
4:00							
4:15							
4:30							
4:45							
5:00							

Active	Name	Content
<input checked="" type="checkbox"/>	Preset Daypart A	M
<input checked="" type="checkbox"/>	Preset Daypart B	M/V
<input checked="" type="checkbox"/>	Preset Daypart C	M/V/A
<input checked="" type="checkbox"/>	Preset Daypart D	M/V
<input type="checkbox"/>	Christmas	M/V/A
<input type="checkbox"/>	Light and Easy	M/V
<input checked="" type="checkbox"/>	Sales Promo	A/V
<input type="checkbox"/>	User Party Mix	M/V
<input checked="" type="checkbox"/>	User Reggae Mix	M/V

306

307

View

☐ Active

☒ Active and Inactive

304

Status

☐ OK

☒ All

308

310

312

Select All

Clear All

OK

Cancel

324

Figure 9

009250* 6662500

File

Edit

View

Favorites

Tools

Help

Back

Forward

Stop

Refresh

Print

Home

Search

Favorites

Address

http://domainname/collections

Daypart

Preset Daypart A

CAT	Description	Items	% Mix	CAT	Description
CC	Core Country	336	45	HT	70-90's Adult Cont
CR	60-90's Classic Rock	535	35	MN	70-90's Mainstream
EJ	Easy Jazz	411	20	CC	Core Country
HT	70-90's Adult Cont	234			
LJ	Light Jazz	234			
LT	70-90's Light Cont	466			
MN	70-90's Mainstream	56			
SG	60-70's Solid Gold	67			
RM	User Reggae Mix	34			

100%

Total Percentage

View

☒ Only Existing Categories
 ☐ Add Categories from Master Library

New

OK

Cancel

Figure 10

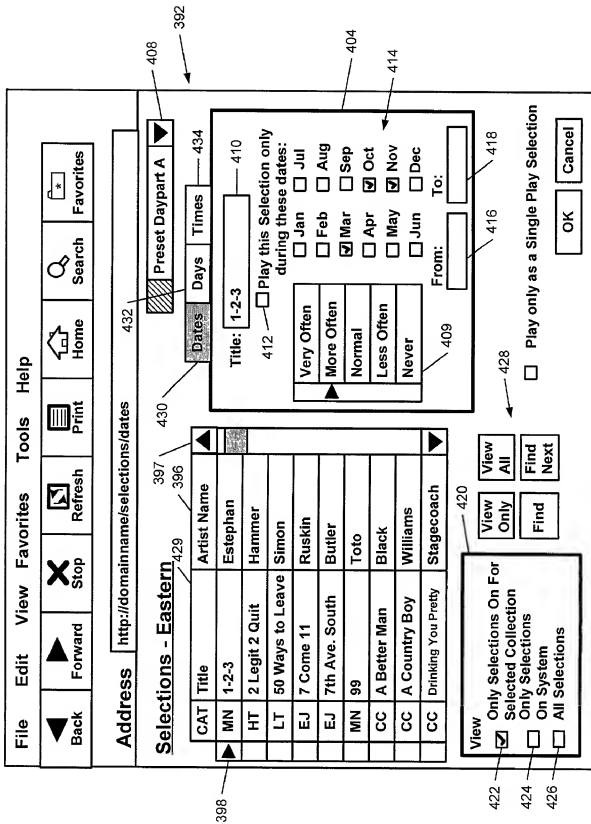


Figure 11

File Edit View Favorites Tools Help

Back Forward Stop Refresh Print Home Search Favorites

Address <http://domainname/selections/days> 432

Selections - Eastern

CAT	Title	Artist Name
▲	1-2-3	Estéphan
	HT 2 Legit 2 Quit	Hammer
	LT 50 Ways to Leave	Simon
	EJ 7 Come 11	Ruskin
	EJ 7th Ave. South	Butler
	MN 99	Toto
	CC A Better Man	Black
	CC A Country Boy	Williams
	CC Drinking You Pretty	Stagecoach

430 Dates Days Times 434

Preset Daypart A

Title: 1-2-3 410

454 ☒ Play this Selection only during on these days:

455 ☐ Do not Play this Selection during on these days:

452

From: 456 To: 458

Sun ☐ Thu ☐
 Mon ☐ Fri ☐
☒ Tue ☐ Sat ☐
 Wed ☐

☐ Play only as a Single Play Song

OK Cancel

View Only Find View All Find Next

View

☒ Only Selections For Selected Collection

☐ Only Selections On System

☐ All Selections

450

Figure 12

File Edit View Favorites Tools Help

Back Forward Stop Refresh Print Home Search Favorites

Address <http://domainname/selections/times> 432

Selections - Eastern

CAT	Title	Artist Name
MN	1-2-3	Estephan
HT	2 Legit 2 Quit	Hammer
LT	50 Ways to Leave	Simon
EJ	7 Come 11	Ruskin
EJ	7th Ave. South	Butler
MN	99	Toto
CC	A Better Man	Black
CC	A Country Boy	Williams
CC	Drinking You Pretty	Stagecoach

Preset Daypart A 434

430 Dates Days Times 410

Title: 1-2-3

Play this Selection Every 15 Minutes 472

Play this Selection at 12:20 474

Do Not Play this Selection From: 476 To: 478 480

☐ Do Not Play this Selection

☐ Play only as a Single Play Song

OK Cancel

View Only Selected Collection
☒ Only Selections
☐ On System
☐ All Selections

View Only All
 Find Next

Figure 13

File Edit View Favorites Tools Help

Back Forward Stop Refresh Print Home Search Favorites

Address <http://domainname/createcollections> 497

Create Collections - Eastern 486

485

CAT	Title	Artist Name
MN	1-2-3	Estephan
HT	2 Legit 2 Quit	Hammer
LT	50 Ways to Leave	Simon
EJ	7 Come 11	Ruskin
EJ	7th Ave. South	Butler
MN	99	Toto
CC	A Better Man	Black
CC	A Country Boy	Williams
CC	Drinking You Pretty	Stagecoach

488

489

490

View

Only Selections On For Selected Collection 491-1

Only Selections On System 491-2

All Selections 491-3

View All View Only Find Find Next

New Select Select All Clear Clear All OK Cancel

493 494 495

User Reggae Mix 497

Figure 14

File Edit View Favorites Tools Help

Back Forward Stop Refresh Print Home Search Favorites

Address <http://domainname/individualselections> 504

Individual Selections - Eastern 502

510

CAT	Title	Artist Name	Play Time
MN	1-2-3	Estephan	Every 30 Min.
HT	2 Legit 2 Quit	Hammer	10:46 AM
LT	50 Ways to Leave	Simon	Every 16 Min.
EJ	7 Come 11	Ruskin	Never
EJ	7th Ave. South	Butler	
MN	99	Toto	
CC	A Better Man	Black	
CC	A Country Boy	Williams	
CC	Drinking You Pretty	Stagecoach	

522 520

524 526 530

Play this Song Every 15 Minutes

Play this Song at 12:20

Do Not Play this Song

From: To:

530

528

532

519

512

View

Only Selections For

☒ Selected Collections

☐ Only Selections On System

☐ All Selections

View Only Find Next

View All Find Next

OK Cancel

514 516 518

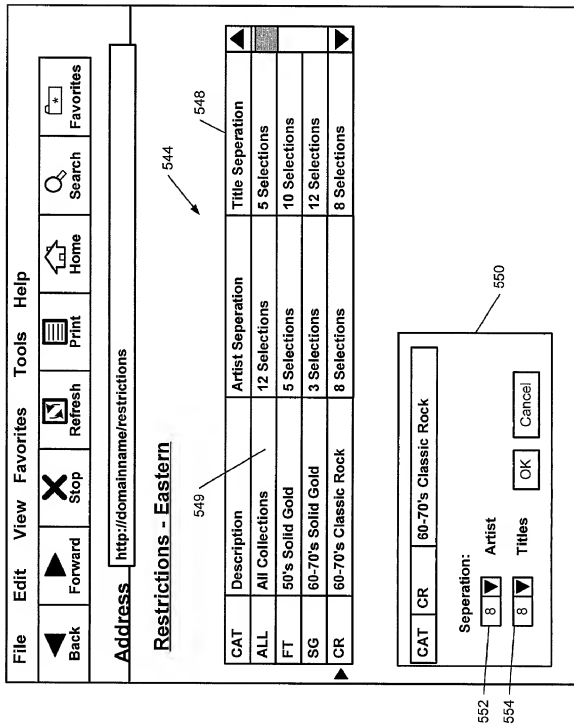
Figure 15

Figure 16

File	Edit	View	Favorites	Tools	Help
Back	Forward	Stop	Refresh	Print	Home
Search	Search	Search	Search	Search	Search
Search	Search	Search	Search	Search	Search

Address <http://domainname/volume>

Volume - Eastern

586

LOCATION

FINE DINING

GRILL

WAITING AREA

BAR

590

581

582

584

Time	S	M	T	W	T	F	S
3:00	6	6	6	6	6	6	8
3:15	6	6	6	6	6	6	8
3:30	6	6	6	6	6	6	8
3:45	6	6	6	6	6	6	8
4:00	6	6	6	6	6	6	8
4:15	9	9	9	9	9	9	10
4:30	9	9	9	9	9	9	10
4:45	9	9	9	9	9	9	10
5:00	9	9	9	9	9	9	10

592

Select All

OK

Clear All

Cancel

Figure 17

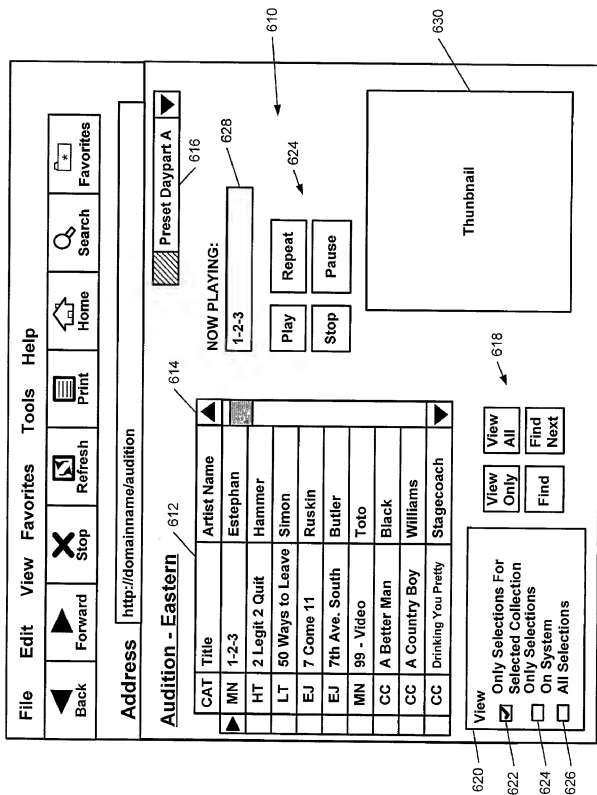


Figure 18

File Edit View Favorites Tools Help

Back Forward Stop Refresh Print Home Search Favorites

Address <http://domainnamesetup/Hours> 674 676 678

Hours Security Misc 666

Setup - Eastern 668

Schedule All ▲ 669

Fall	A
Winter	A
Spring	A
Summer	A
Fall	A
Christmas	A
Halloween	A
Memorial Day	A
Labor Day	All ▼

Business Hours 654

Time	S	M	T	W	T	F	S
3:00	O	O	O	O	O	O	C
3:15	O	O	O	O	O	O	C
3:30	O	O	O	O	O	O	C
3:45	O	O	O	O	O	O	C
4:00	O	O	O	O	O	O	C
4:15	O	O	O	O	O	O	C
4:30	C	C	C	C	C	C	C
4:45	C	C	C	C	C	C	C
5:00	C	C	C	C	C	C	C

670

Set Dates 673

Make Active Make Open Make Inactive Make Closed Select All Deselect All 671

672

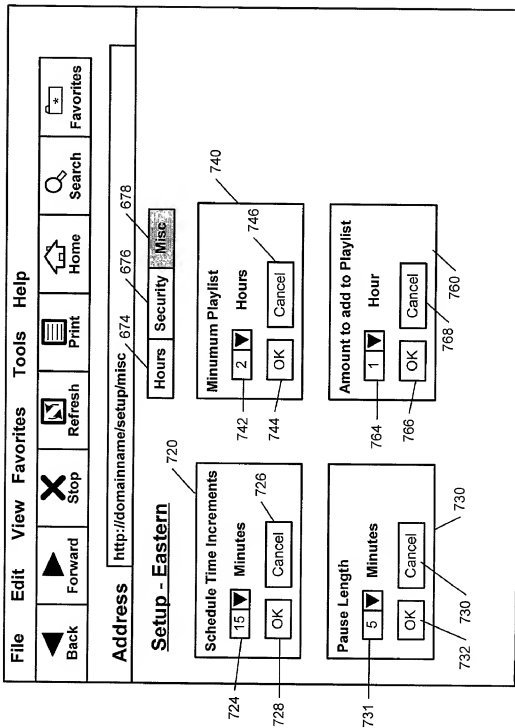
Figure 20

Figure 21

File	Edit	View	Favorites	Tools	Help
Back	Forward	Stop	Refresh	Print	Home
				Search	Favorites
Address http://domainname/log					
Log - Eastern					
Current Qtr	Winter 1999	Fall 1999	Summer 1999		
Date	Description	Time	Sched		
3/28/00	THE END OF THE INNOCENCE	2:45:54	2:45:51		
3/28/00	AIN'T NO MOUNTAIN HIGH ENOUGH	2:50:56	2:50:50		
3/28/00	FALL SALES PROMO FOR WIDGETS	2:54:31	2:54:31		
3/28/00	SOLDIER BOY VIDEO AND AUDIO	2:59:41	2:59:41		
3/28/00	FALL PROMO - TWO FOR ONE BURRITOS	3:02:19	3:02:12		
3/28/00	AIN'T NO MOUNTAIN HIGH ENOUGH	3:06:06	3:06:10		
3/28/00	SHATTERED DREAMS	3:09:41	3:09:33		
3/28/00	ALL AROUND THE WORLD	3:12:49	3:12:53		
3/28/00	7 COME 11	3:16:59	3:16:59		